556,933

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 25 November 2004 (25.11.2004)

PCT

(10) International Publication Number WO 2004/101143 A1

(51) International Patent Classification7: B02C 17/00

B01J 20/30.

(21) International Application Number:

PCT/PL2003/000115

(22) International Filing Date:

4 November 2003 (04.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

P.360102

13 May 2003 (13.05.2003)

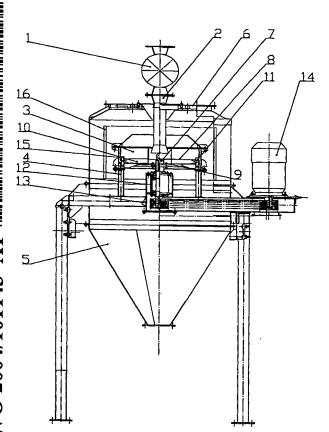
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: METHOD OF AND DEVICE FOR OBTAINING HIGHLY REACTIVE CALCIUM SORBENTS AND/ OR OF BIND-ING MATERIALS



(57) Abstract: Subject of the invention is the method of and apparatus for fabrication of highly reactive calcium sorbents and/or binding materials, from powdered calcium carbonate and/or flyashes coming from coal combustion, especially in boilers with fluidised bed furnaces. Method according to invention is characterised in that the ashes with chemical by weight containing from 25% up to 45% Si02, from 3% up to 25% $A1_20_3,$ from 10% up to 40% CaO, from 5% up to 15% SO3, beneficially with 51% addition of Portland cement or slag or clinker as activator, are beneficially pre-mixed with calcium carbonate and then the mixture or ashes are mechanically deagglomerated and activated through free particles collisions at the speed at least 8 m/sec. Device according to invention consisting of the container (5) closed with cover (6) and the chamber (3), characterised in that the ashes inlet pipe (2) is located centrally within the rotor (8) axis and finished with the tapered, expanding down outlet, whereas there is a group of arms (10), fastened radially to the disc (9) of rotor (8), equipped with blades (11), at the same moment every second blade (10) is positioned in the plane of rotor disc (8) and the others have a lift of 1° up to 2,5°, and there is a cylindrical basket (16) fastened between the outer cylindrical surface of the chamber (3) and cylindrical outer surface of the container (5), and electrically connected with the earth of container (5).

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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